

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A fixing apparatus comprising:
a heating member including at least a conductor;
an induction heating coil comprising first and second coils:
a first resonant circuit including the first coil as a structural element;
a second resonant circuit including the second coil as a structural element; and
a driving circuit for driving the first and second resonant circuits at a plurality of frequencies,
wherein the first and second resonant circuits have different resonance frequencies,
and the plurality of frequencies include a first frequency and a second frequency different from the first frequency; and
wherein the first frequency is different from the resonance frequency of the first resonant circuit by Δf .
2. (Currently amended) An apparatus according to claim 1, wherein an output of the first coil is greater than an output of the second coil when the first and second coils are driven at a the first frequency ~~included in the plurality of frequencies~~, and the output of the second coil is greater than the output of the first coil when the first and second coils are driven at a the second frequency ~~different from the first frequency~~.
3. (Original) An apparatus according to claim 1, wherein the first and second resonant circuits are formed as a single circuit.
4. (Original) An apparatus according to claim 1, wherein the first coil is located in a position corresponding to a substantially center portion of the heating member in the axial direction thereof, and the second coil is located in positions corresponding to both end portions of the heating member in the axial direction thereof.

5. (Original) An apparatus according to claim 2, wherein a total of the outputs of the first and second coils remains unchanged even when the first and second frequencies are changed by the driving circuit.

6. (Currently amended) An apparatus according to claim 2, which further comprises a controller configured to control the driving circuit, and wherein the controller has at least ~~(a)~~ a mode in which when a paper sheet having a width substantially equal to a width of the first coil in a longitudinal direction of the heating member is fed to the fixing apparatus, the driving circuit performs driving at the first frequency, and ~~(b)~~ a mode in which when a paper sheet having a width greater than the width of the first coil in the longitudinal direction of the heating member is fed to the fixing apparatus, the driving circuit alternately uses the first and second frequencies to alternatively drive the first and second resonant circuits.

7. (Original) An apparatus according to claim 2, wherein the first and second resonant circuits are set such that the output of the first coil at time of driving the first coil at the second frequency is greater than the output of the second coil at time of driving the second coil at the first frequency.

8. (Original) An apparatus according to claim 1, further comprising a pressure member which is rotatable along with the heating member while being in pressure-contact with the heating member.

9. (Original) An apparatus according to claim 1, wherein the first and second resonant circuits have frequency-output characteristics in which half-widths of the first and second resonant circuits are equal to each other.

10. Cancel

11. (Currently amended) An apparatus according to claim ~~2~~1, wherein the second frequency is different from ~~a~~ the resonance frequency of the second resonant circuit by Δf .

12. (Original) An apparatus according to claim 2, wherein the outputs of the first and second coils have the following relationship:

$$A:B \neq D:C$$

where A is the output of the first coil at time of driving the first coil at the first frequency, B is the output of the second coil at time of driving the second coil of the second coil at the first frequency, C is the output of the first coil at time of driving the first coil at the second frequency, and D is the output of the second coil at time of driving the second coil at the second frequency.

13. (Original) A fixing apparatus comprising:

a heating member including at least a conductor;

a induction heating coil comprising first and second coils;

a first resonant circuit having a first resonance frequency and including the first coil as a structural element;

a second resonant circuit having a second frequency different from the first frequency and including the second coil as a structural element; and

a driving circuit configured to drive the first and second resonant circuits at a plurality of frequencies; and

a controller configured to control the driving circuit,

wherein the controller has at least (a) a mode wherein when a paper sheet having a width substantially equal to a width of the first coil which is measured in a longitudinal direction of the heating member is fed to the fixing apparatus, the driving circuit drives the first and second resonant circuits at the first frequency, and (b) a mode wherein when a paper sheet having a width greater than the width of the first coil in the longitudinal direction of the heating member is fed to the fixing apparatus, the driving circuits alternately uses the first and second frequencies to alternatively drive the first and second resonant circuits.

14. (Original) An apparatus according to claim 13, wherein the first and second resonant circuits are set such that the output of the first coil at time of driving the first coil at

the second frequency is greater than the output of the second coil at time of driving the second coil at the first frequency.

15. (Original) An apparatus according to claim 13, wherein the first and second resonant circuits have frequency-output characteristics in which half-widths of the first and second resonant circuits are equal to each other.

16. (Original) An apparatus according to claim 13, wherein the first frequency is different from a resonance frequency of the first resonant circuit by Δf .

17. (Original) An apparatus according to claim 13, wherein the second frequency is different from a resonance frequency of the second resonant circuit by Δf .

18. (New) A fixing apparatus comprising:
a heating member which has at least a conductor;
a first resonant circuit which includes a first coil, and has a first resonance frequency;
a second resonant circuit which includes a second coil, and has a second resonance frequency which is greater than the first resonance frequency;
a drive circuit which drives the first and second resonant circuits at a first frequency and at a second frequency different from the first frequency,
wherein the first and second frequencies differ from the first and second resonance frequencies.

19. (New) An apparatus according to claim 18, wherein the first frequency is Δf_a smaller than the first resonance frequency, the second frequency is Δf_b smaller than the second resonance frequency, and Δf_a is different from Δf_b .

20. (New) An apparatus according to claim 19, wherein Δf_b is greater than Δf_a .

21. (New) An apparatus according to claim 20, wherein a difference between an output of the first coil and an output of the second coil while the drive circuit drives the first

and second resonant circuit at a first frequency is greater than a difference between the output of the first coil and the output of the second coil while the drive circuit drives the first and second resonant circuit at the second frequency.

22. (New) An apparatus according to claim 18, wherein the first resonant circuit and the second resonant circuit are connected in parallel.

23. (New) An apparatus according to claim 18, wherein the driving circuit alternatively drives the first and second resonant circuits at the first and second frequencies.

24. (New) An apparatus according to claim 18, wherein the second frequency is included in a range between the first resonance frequency and the second resonance frequency, and the first frequency is not included in the range.